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OIL AND GAS STATISTICS

MAY 1977

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56 WELLESLEY ST., W.  
QUEEN'S PARK  
TORONTO, ONTARIO




# OIL AND GAS STATISTICS

May 1977

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## PETROLEUM IN ONTARIO

### General

Oil consumption increased by about 6 percent in 1976 over 1975; this compares with a decrease of 3 percent in 1975 over 1974. Crude oil deliveries from western Canada changed little from 1975 levels. Imports of domestic U.S. crude oil were received in exchange for deliveries of western Canada oil to midwestern U.S.A. refineries.

Refinery production increased slightly over 1975 levels. Interprovincial transfers of petroleum products (mainly from Quebec) decreased. Product imports and exports also were lower. Native Ontario crude oil production decreased in 1976.

Interprovincial Pipe Line Ltd. plans to construct a 26 mile lateral to its crude oil transmission line from Mount Hope to the major industrial development under way at Nanticoke.

### Ontario Crude Oil Production

Production from Ontario oil wells in the first quarter of 1977 was higher than in the first quarter of 1976 when production had decreased from 1975 levels. The 1977 increase resulted from 14 percent more production from the Rodney field, Elgin county, which represented 30 percent of total output. Decreases in production from other fields partially offset the Rodney increase.

Crude Oil Production in Ontario  
Comparative Totals in Barrels, First Quarter

(Preliminary)

Period	Production		Percent Changes	
	1977	1976	1977/76	1976/75
January	46,704	47,512	-1.7	-17.9
February	50,941	50,562	0.8	-13.6
March	59,753	42,984	39.0	-33.6
Totals - first quarter	157,398	141,058	11.6	-22.1

Western Canada Crude Oil and Other Supplies

Receipts of western Canadian oil averaged 442,000 barrels a day (bpd) in 1976, a slight increase over 1975.

Alberta deliveries which account for over 80 percent of total crude receipts decreased by about 2 percent in 1976. Saskatchewan deliveries rose over 3 percent and accounted for 17 percent of the total receipts. Deliveries from Manitoba doubled.

No imports from Venezuelan crude oil occurred in 1976. Starting with initial deliveries in August, imports of U.S. domestic crude oil totalled over 2.5 million barrels by the end of the year and supplied 1 percent of total requirements. These imports were received in exchange for deliveries of western Canada crude oil to western U.S. refineries.

Refined Petroleum Products

Ontario oil refinery production increased about 2 percent to about 455,000 bpd in 1976. This increase compared with a 1975/74 decrease of 1 percent. Ontario refinery production accounted for around 27 percent of the all-Canada total.



Consumption of refined petroleum products increased nearly 6 percent to 553,000 bpd following the 3 percent decrease recorded in 1975.

Motor gasoline accounted for 41 percent of refinery output, heavy fuel oil 14 percent, and light fuel oil 16 percent. Motor gasoline production decreased only 2 percent, while heavy fuel oil and light fuel oil production increased, 3 percent and 11 percent respectively.

Net interprovincial transfers dropped by 10 percent to about 79,000 bpd.

There were no imports of motor gasoline in 1976. Of total imports approximating 6,200 bpd, light fuel oil accounted for nearly 4 percent and heavy fuel oil 2 percent.

Exports of products decreased 18 percent. Out of a total of 22,800 bpd exported, over 74 percent was heavy oil, 10 percent motor gasoline and 2 percent light fuel oil.

Sources of Supply of Major Products as Percentage of  
Total Consumption at December 31, 1976

Source	Motor Gasoline		Light Fuel Oil		Heavy Fuel Oil		All Products	
	1976	1975	1976	1975	1976	1975	1976	1975
Refinery Production	85.6	89.4	67.9	66.2	80.4	87.8	82.3	84.8
Transfers:								
Interprovin- cial (Net)	9.9	13.4	10.7	16.4	37.7	31.9	14.3	16.8
Interproducts	4.1	1.5	11.2	16.4	Ø	5.3	Ø	Ø
Inventory	0.3	-3.3	7.8	1.2	2.6	-1.3	2.7	-1.6
Imports	Ø	Ø	0.2	0.3	0.1	1.0	1.1	1.4
Exports	1.0	1.3	0.5	2.9	20.8	28.7	4.1	5.3
Net Imports	-1.0	-1.3	-0.3	-2.6	-20.7	-27.7	-3.0	-3.9

In 1976 refined product sales in Ontario 526,000 bpd increased by 6 percent following a 2 percent decrease in 1975. Ontario sales accounted for over 30 percent of total sales in Canada. The largest increases occurred in heavy fuel oil and light fuel oil sales. The large increase in heavy fuel oil sales probably was attributable to usage in the Lennox oil-fired generating station near Kingston.

Product Sales as Percentage of Total Sales  
At December 31, 1976

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Product	Percent Total Sales		Percent Changes	
	1976	1975	1976/75	1975/74
Motor gasoline	41.3	36.8	2.2	2.5
Heavy fuel oil	13.1	11.2	13.5	-17.3
Light fuel oil	19.6	29.5	7.5	- 8.9
Diesel fuel oil	8.7	7.1	5.0	2.2
Three fuel oils	41.4	47.8	8.8	9.5
All four fuels	82.7	84.6	5.4	-3.7

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## NATURAL GAS IN ONTARIO

### General

Ontario consumption of natural gas increased about 4 percent in the first quarter of 1977 compared with the first quarter of 1976. A similar rate of increase occurred in the previous year.

Deliveries of gas from western Canada decreased. Withdrawals from and injections into storage reservoirs were substantially higher. No gas was imported from the U.S.A. Output from Ontario producing wells decreased.

TransCanada PipeLines Ltd. recently completed looping nearly 48 miles of its main gas transmission line between Toronto and Montreal and 16 miles on its lateral to Ottawa. TransCanada also was authorized by the National Energy Board to construct 12 miles of looping just north of Toronto on its line connecting with Montreal. This looping is to be completed by fall 1977.

### Ontario Production

First quarter production of natural gas from Ontario fields decreased from 1976 levels but at a slower rate than the 1976/1975 decrease. Output from Lake Erie, representing 60 percent of total production, decreased 30 percent.

### Gas Storage

First quarter withdrawals of natural gas from storage pools increased significantly over 1976 levels compared with the minor decline that occurred in the previous year. The higher rate of January-February withdrawals accounted for the bulk of the increase. The increased withdrawals apparently were needed for increased sales in these months.

Deposits into storage also were higher. Injections in January and March accounted for the bulk of this increase. By March-end, the balance of supplies in storage held for distributors was 26 million Mcf. This represented a 35 percent decrease from the volumes at the same time in 1976 which were 18 percent higher than in 1975.

Natural Gas in Ontario

Comparative Receipts & Disposition

First Quarter 1977  
(Preliminary)

In Thousands Cubic Feet

			Percent	Changes
	1977	1976	1977/76	1976/75
<u>RECEIPTS</u>				
Produced	1,208,495	1,518,751	-20.4	-53.4
Withdrawn from Storage	83,389,255	59,185,876	40.9	- 0.8
From Western Canada	162,546,336	176,348,355	- 7.8	5.9
Imports from U.S.A.	-	1,156,192	-100.0	- 9.8
Total Receipts	247,144,086	238,209,174	3.8	3.2
<u>DISPOSITION</u>				
Sales to Customers	235,508,217	227,002,183	3.7	4.7
Injected into Storage	6,673,880	4,143,113	61.1	14.6
Exports to U.S.A.	3,614,920	3,841,076	- 5.9	9.6
Line Pack	66,132	27,280	Ø	Ø
Used in Operation	5,989,504	5,319,799	12.6	7.7
Metering & Other Unaccounted	-4,708,567	-2,124,277	Ø	Ø
Total Disposition	247,144,086	238,209,174	3.8	3.2



Comparative Receipts & Disposition

First Quarter 1977

(Preliminary)

In Thousands Cubic Feet

	January		February		March	
	1977	1976	1977	1976	1977	1976
<u>RECEIPTS</u>						
Produced	480,083	647,551	334,370	541,332	394,042	329,868
Withdrawn from storage	39,971,387	28,344,504	28,714,802	15,242,888	14,703,066	15,598,484
From Western Canada	58,453,070	59,820,282	47,764,826	57,298,811	56,328,440	58,929,262
Imports from U.S.A.	-	31,452	-	263,877	-	860,863
Total Receipts	98,904,540	88,843,789	76,813,998	73,646,908	71,425,548	75,718,477
<u>DISPOSITION</u>						
Sales to Customers	88,625,352	83,924,793	80,185,285	74,102,817	66,697,580	68,974,573
Injected into Storage	1,741,111	492,923	1,434,007	1,711,067	3,498,762	1,939,123
Exports to U.S.A.	1,412,196	1,352,291	1,105,250	1,242,183	1,097,474	1,246,602
Line Pack	-71,240	33,180	1,876	-22,520	135,496	16,620
Used in Operation	2,083,192	1,913,351	2,014,157	1,661,541	1,892,155	1,744,907
Metering & Other	5,113,929	1,127,251	-7,926,577	-5,048,180	-1,895,919	1,796,652
Unaccounted						
Total Disposition	98,904,540	88,843,789	76,813,998	73,646,908	71,425,548	75,718,477



### Transmission

First quarter deliveries of gas from western Canada in 1977 decreased from their 1976 level which was higher than that in 1975. This decrease was a marked change from the 9 percent increase over 1975 levels that had been recorded for the last peak demand quarter of 1976. A decrease of 17 percent occurred in February deliveries compared to their level in 1976.

Natural gas used in compression and other transmission activities increased.

### Imports and Exports

No imports of gas from the U.S.A. occurred during the first quarter of 1977. These imports had ceased with termination of an imports contract during November 1976.

Gas exported through the province to the U.S.A. in the first quarter decreased compared with the 1976 first quarter. Decreases in February-March more than offset a 4 percent increase in January. Exports through the Rainy River region of northwestern Ontario, which accounted for around 55 percent of total exports, decreased 6 percent from 1976 levels; the balance transmitted into northeastern New York State decreased nearly 5 percent.

## Sales

Sales of natural gas to Ontario consumers continued to account for about half of the total sales to Canadian consumers. First quarter sales in 1977 increased but at a lower rate than in 1976. Sales in January and February were up but March sales were lower than in 1976. Residential sales increased but at a lower rate than in 1976; the number of residential customers increased at a similar rate to 1976. The number of commercial users increased at a higher rate than in 1976 but sales increased at a somewhat lower rate. Industrial sales decreased slightly and accounted for 43 percent of total sales, down from the 1976 ratio of 45 percent. The number of industrial users declined.

### Percentage Changes in Monthly Sales by Customer Categories During First Quarter Over Previous Year

	Residential		Commercial		Industrial		Total	
	<u>1977</u>	<u>1976</u>	<u>1977</u>	<u>1976</u>	<u>1977</u>	<u>1976</u>	<u>1977</u>	<u>1976</u>
January	3.0	26.3	5.6	22.1	7.4	3.3	5.6	14.4
February	18.6	5.2	15.6	7.3	-3.4	-2.7	8.2	2.2
March	-1.3	-5.9	12.2	-0.9	-4.9	-2.0	-3.3	-2.0

NATURAL GAS IN ONTARIO

CONSUMERS AND SALES BY CATEGORIES

First Quarter 1977

(Preliminary)

In Thousands Cubic Feet

<u>Category</u>	1977		1976	
	<u>Number of Consumers</u>	<u>Quantities</u>	<u>Number of Consumers</u>	<u>Quantities</u>
Residential	954,954	64,817,047	920,852	60,526,930
Commercial	102,191	69,536,718	96,145	65,154,681
Industrial	11,498	101,154,452	11,728	101,320,572
Totals	1,068,643	235,508,217	1,028,725	227,002,183

Percent Changes

	1977/76		1976/75	
	<u>Consumers</u>	<u>Quantities</u>	<u>Consumers</u>	<u>Quantities</u>
Residential	3.7	7.1	3.9	8.9
Commercial	6.3	6.7	2.5	9.8
Industrial	-2.0	-0.2	-2.0	-0.5
Totals	3.9	3.7	3.7	4.7





